



- · Cost-effective standardized solar modules for skylight, roofing, and facades applications
- Transparent backsheet features aesthetic appearance and light transmission/shading (Transmission rate: 5%)
- Industry leading plus only power tolerance: 0 ~ +5W
- Strong framed module, passing mechanical load test of 5400Pa to withstand heavier snow load
- Industry first comprehensive warranty insurance by AM Best rated leading insurance companies in the world
- The 1st manufacturer in PV industry to apply ISO: TS16949 (The automotive quality management system) in module production since 2003
- ISO17025 for qualified manufacturer owned testing lab, fully complying to IEC, TUV, UL testing standards
- Backed By Our New 10/25 Linear Power Warranty Plus our added 25 year insurance coverage



- 10 year product warranty on materials and workmanship
- 25 year linear power output warranty



ClearPower CS6P

230/235/240/245/250M

ClearPower CS6P is a robust solar standardized module with a tempered glass front, transparent backsheet and anodized black(or silver) aluminium frame. These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure a high-yield, long-term performance for every module produced. Our rigorous quality control and inhouse testing facilities guarantee Canadian Solar's modules meet the highest quality standards possible.

Best Quality

- 235 quality control points in module production
- EL screening to eliminate product defects
- Current binning to improve system performance

Best Warranty Insurance

- 25 years worldwide coverage
- 100% warranty term coverage
- Providing third party bankruptcy rights
- Non-cancellable
- Immediate coverage
- Insured by 3 world top insurance companies

Comprehensive Certificates

- IEC 61215, IEC 61730, UL1703, MCS
- ISO9001: 2008: Quality Management System
- ISO/TS16949:2009: The automotive quality management system
- ISO14001:2004: Standards for Environmental management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations
- OHSAS 18001:2007 International standards for occupational health and safety







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CS6P-230/235/240/245/250M

Electrical Data

CS6P-230M CS6P-235M CS6P-240M CS6P-245M CS6P-250M STC Nominal Maximum Power (Pmax) 230W 235W 240W 245W 250W 30.3V 30.1V 30.2V 30 4V Optimum Operating Voltage (Vmp) 29.9V 7.70A 7.82A 7.95A 8.09A 8.22A Optimum Operating Current (Imp) Open Circuit Voltage (Voc) 37.1V 37.2V 37.3V 37.4V 37.5V Short Circuit Current (Isc) 8.74A 8.22A 8.34A 8.46A 8.61A Module Efficiency 14.61% 14.92% 15.23% 15.54% 14.30% Operating Temperature -40°C~+85°C Maximum System Voltage 1000V (IEC) /600V (UL) Maximum Series Fuse Rating 15A Application Classification Class A Power Tolerance 0 ~ +5W

Under Standard Test Conditions (STC) of irradiance of 1000W/ m^2 , spectrum AM 1.5 and cell temperature of 25°C

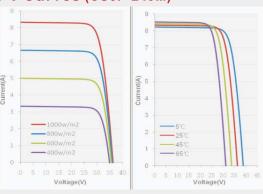
NOCT	CS6P-230M	CS6P-235M	CS6P-240M	CS6P-245M	CS6P-250M
Nominal Maximum Power (Pmax)	166W	170W	173W	177W	180W
Optimum Operating Voltage (Vmp)	27.3V	27.5V	27.5V	27.6V	27.7V
Optimum Operating Current (Imp)	6.09A	6.18A	6.29A	6.40A	6.51A
Open Circuit Voltage (Voc)	34.0V	34.1V	34.2V	34.3V	34.4V
Short Circuit Current (Isc)	6.65A	6.75A	6.85A	6.97A	7.08A

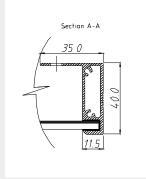
Under Normal Operating Cell Temperature, Irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

Mechanical Data

Cell Type	Mono-crystalline 156 x 156mm, 2 or 3 Busbars 60 (6 x 10) 1638 x 982 x 40mm (64.5 x 38.7 x 1.57in)				
Cell Arrangement					
Dimensions					
Weight	19kg (41.9 lbs)				
Front Cover	3.2mm Tempered glass				
Frame Material	Anodized aluminium alloy				
J-BOX	IP65, 3 diodes				
Cable	4mm²(IEC)/12AWG(UL), 1000mm MC4 or MC4 Comparable				
Connectors					
Standard Packaging (Modules per Pallet)	24pcs				
Module Pieces per container (40 ft . Container)	672pcs (40'HQ)				

I-V Curves (CS6P-240M)





^{*}Specifications included in this datasheet are subject to change without prior notice.

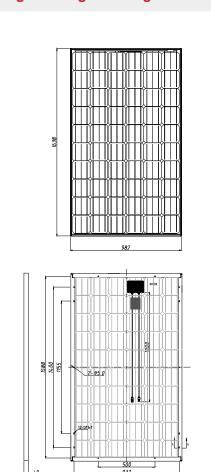
ClearPower Temperature Characteristics

	Temperature Coefficient	Pmax	-0.45%/°C
		Voc	-0.35 %/℃
		Isc	0.060 %/°C
	Normal Operating Cell Ter	45±2℃	

Performance at Low Irradiance

Industry leading performance at low irradiation environment, +95.5% module efficiency from an irradiance of 1000w/m^2 to 200w/m^2 (AM 1.5, 25 °C)

Engineering Drawings



About Canadian Solar

Canadian Solar Inc. is one of the world's largest solar companies. As a leading vertically-integrated manufacturer of ingots, wafers, cells, solar modules and solar systems, Canadian Solar delivers solar power products of uncompromising quality to worldwide customers. Canadian Solar's world class team of professionals works closely with our customers to provide them with solutions for all their solar needs.

Canadian Solar was founded in Canada in 2001 and was successfully listed on NASDAQ Exchange (symbol: CSIQ) in November 2006. Canadian Solar has module manufacturing capacity of 2.05GW and cell manufacturing capacity of 1.3GW.

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